

Amendments to the Claims

1. (currently amended) A speaker system operable to generate sound, comprising:
a speaker located in a speaker system operable to generate sound in response to an audio signal; and
a communication module having high impedance at frequencies within an audio range of the speaker system located in the speaker system operable to transmit information to an amplifier located separate from the speaker system in response to a carrier signal, wherein the information includes speaker characteristics.
2. (previously presented) The speaker system of claim 1, wherein the communication module transmits information from the speaker system to the amplifier across wires.
3. (previously presented) The speaker system of claim 1, wherein the communication module transmits information from the speaker system to the amplifier using a wireless connection.
4. (original) The speaker system of claim 1, wherein the speaker system further comprises a high-pass filter and rectifier operable to derive output power from the carrier signal.
5. (canceled)
6. (original) The speaker system of claim 1, wherein the communication module communicates via one of the group comprising: amplitude modulation, phase-shift keying, and two-tone modulation.
7. (previously presented) The speaker system of claim 1, wherein the information transmitted by the communication module from the speaker system to the amplifier is transmitted in a separate frequency band from the audio signal.

8. (previously presented) The speaker system of claim 1, wherein the information transmitted by the communication module from the speaker system to the amplifier is transmitted in a frequency band that overlaps the audio signal.
9. (currently amended) A method for operating a speaker system in a sound system, the method comprising:
- generating a carrier signal from an amplifier to the speaker system through a connection between the amplifier and the speaker system, wherein the speaker system is located separate from the amplifier;
- rectifying power from the carrier signal in a speaker system, wherein the power is used by a communication module located in the speaker system, wherein the communications module has high impedance at frequencies within an audio range of the speaker system; and
- transmitting information from the speaker system to the amplifier using the communication module in the speaker system for as long as the carrier signal is present at the speaker system.
10. (canceled)
11. (original) The method of claim 9, the method further comprising transmitting information from the amplifier to the speaker system.
12. (previously presented) The method of claim 9, wherein transmitting information from the speaker system to the amplifier is accomplished using one of the group comprising: amplitude modulation; phase-shift keying; and two-tone modulation.
13. (original) The method of claim 9, wherein the information is transmitted in a frequency band separate from a frequency band used by an audio signal.
14. (original) The method of claim 9, wherein the information is transmitted in a frequency band that overlaps a frequency band used by an audio signal.
15. (currently amended) A speaker system, comprising:

a speaker connector operable to connect the speaker system to an amplifier located separate from the speaker system;

speaker hardware operable to generate sound from an audio signal received from the speaker connectors;

a high-pass filter operable to pass a high frequency carrier signal received from the speaker connector;

a rectifier operable to receive the high frequency carrier signal and convert it into a power signal; and

a communications module operable to receive the power signal from the rectifier and transmit static characteristics of the speaker hardware to the amplifier using the speaker connector, the communications module having high impedance at frequencies within an audio range of the speaker system.

16. (original) The speaker system of claim 15, wherein the speaker connector connects the speaker system to the amplifier with wires.

17. (original) The speaker system of claim 15, wherein the speaker connector connects the speaker system to the amplifiers using a wireless connection.